

Replacement Sheet

Sequence I.D. #7 UV Analysis

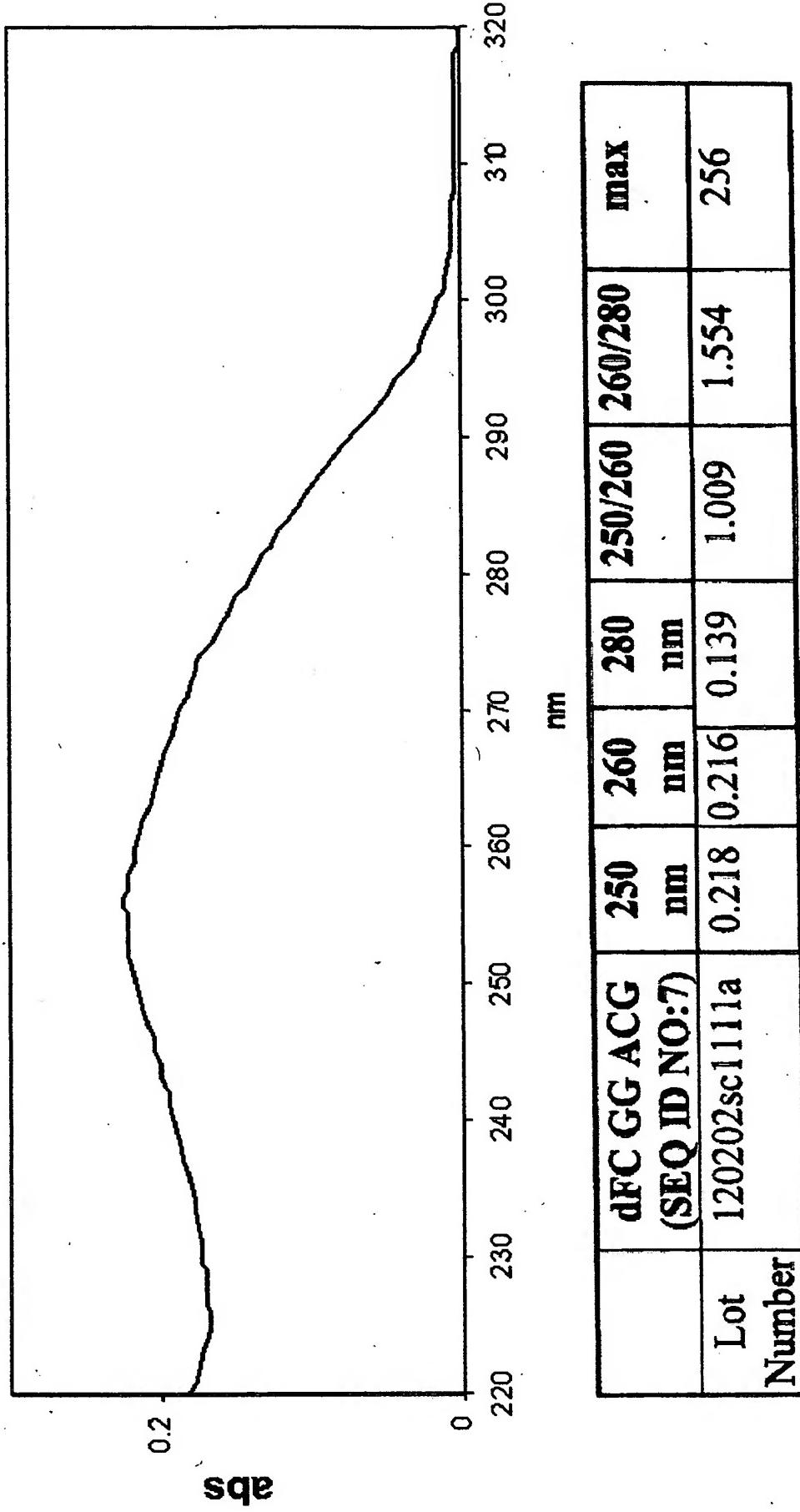
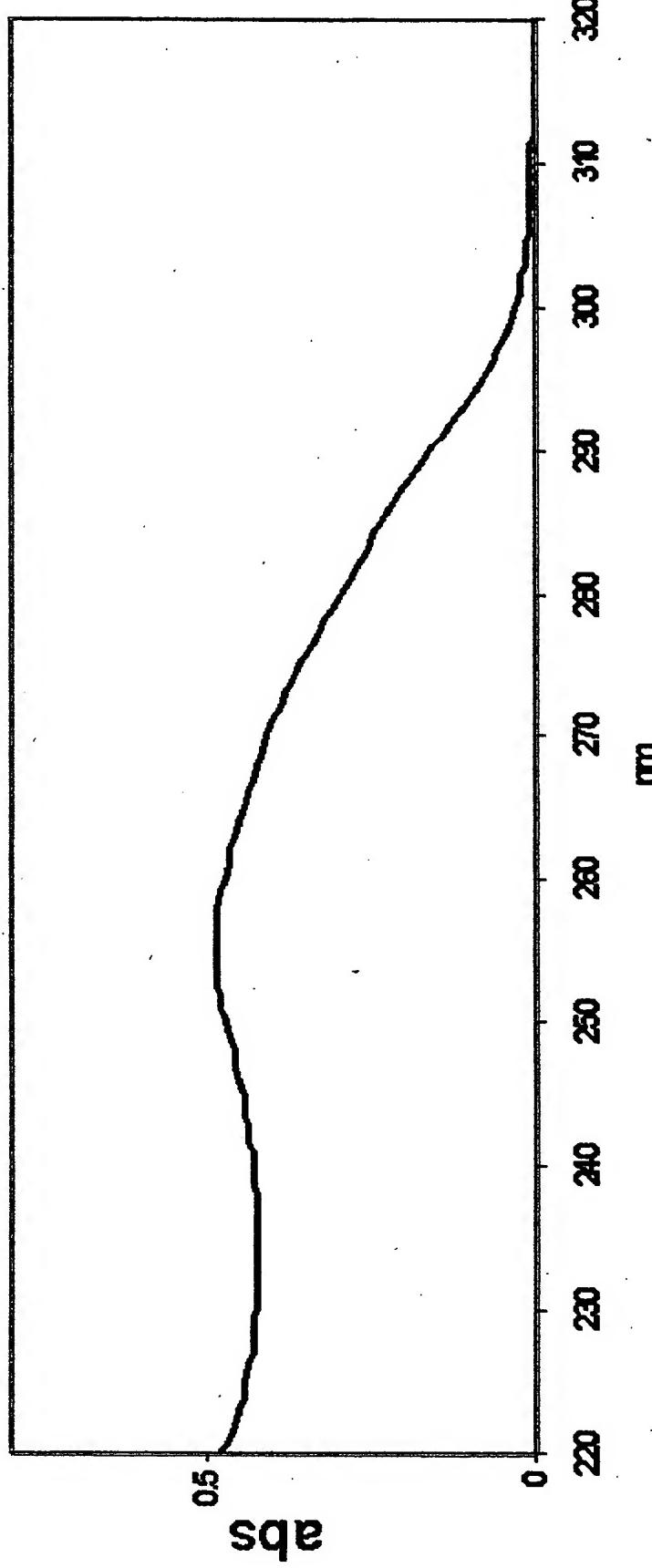


Figure 1: UV absorption spectra of oligonucleotide sequence I.D. #7. dFC CG ACG

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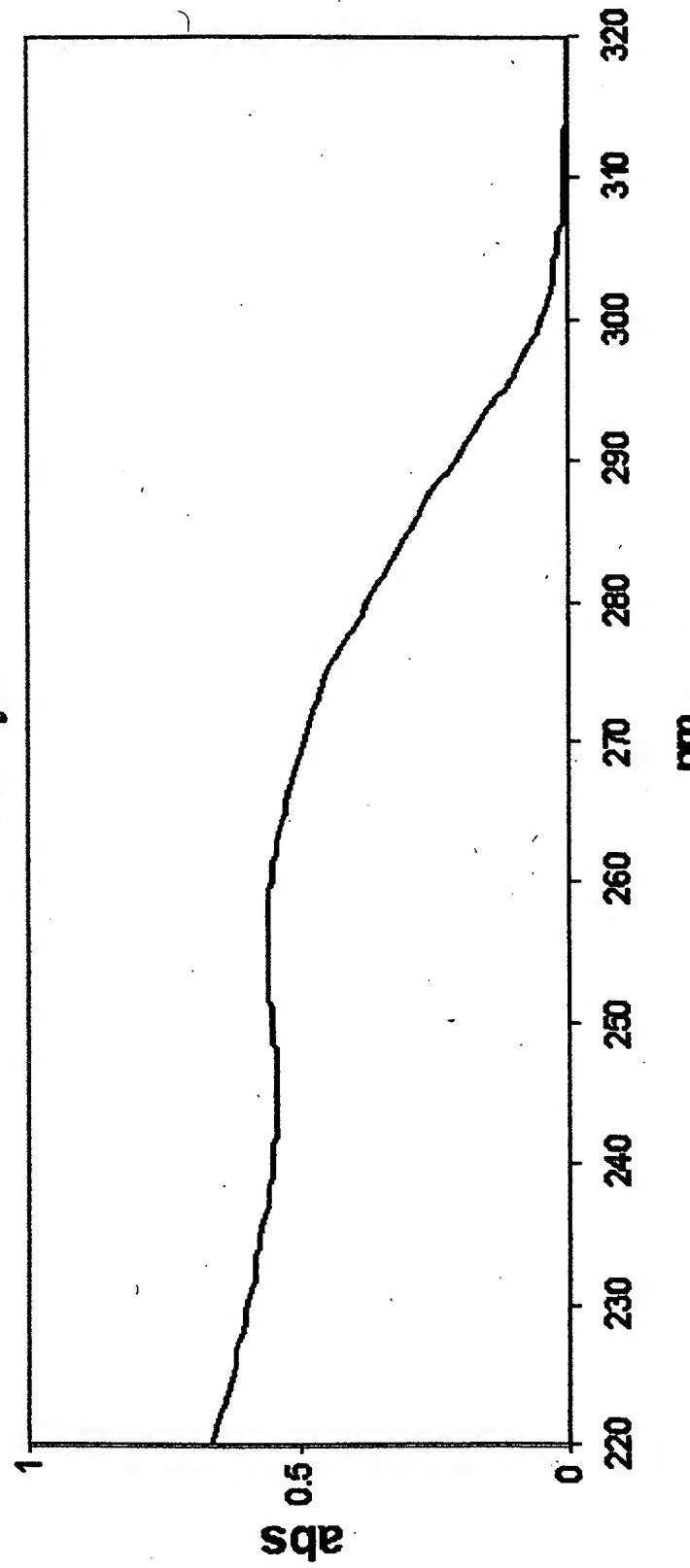
Sequence I.D. #8 UV Analysis



dFC GTG GAA CG (SEQ ID NO: 8)		250 nm	260 nm	280 nm	250/260	260/280	max
Lot #	120202scl113a	0.474	0.476	0.296	0.996	1.608	256

Figure 2: UV absorption spectra of oligonucleotide sequence I.D. #8. dFC GTG GAA CG

Replacement Sheet
Sequence I.D. #9
UV Analysis

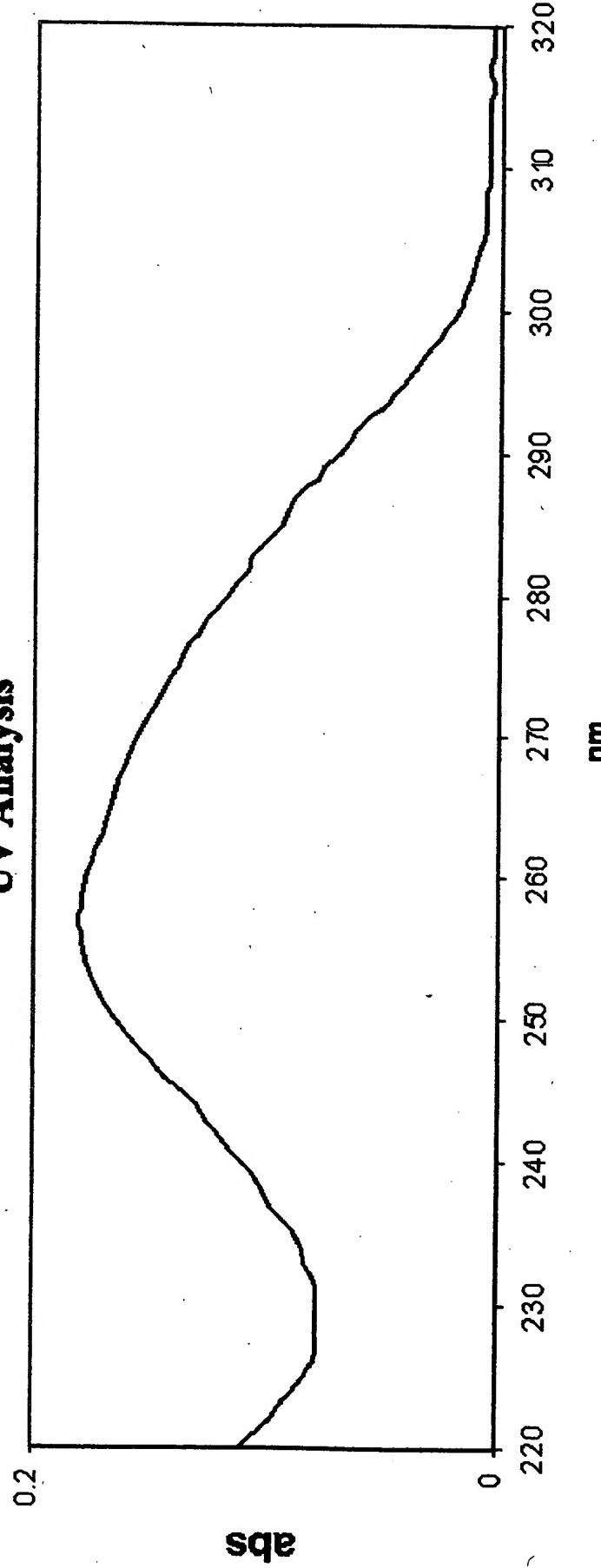


	dFC CGT GGA ACG (SEQ ID NO: 9)	250 nm	260 nm	280 nm	250/260	260/280	max
Lot #	120302sc1117a	0.55	0.553	0.373	0.995	1.483	256

Figure 3: UV absorption spectra of oligonucleotide sequence I.D. #9. dFC CGT GGA ACG.

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Sequence I.D. #10 UV Analysis



dFC GGA GCT GGA ACG (SEQ ID NO:10)		250 nm	260 nm	280 nm	250/260 max	260/280 max
Lot #	120402sc1119a	0.165	0.177	0.118	0.932	1.500

Figure 4: UV absorption spectra of oligonucleotide sequence I.D. #10. dFC GGA GCT GGA ACG.

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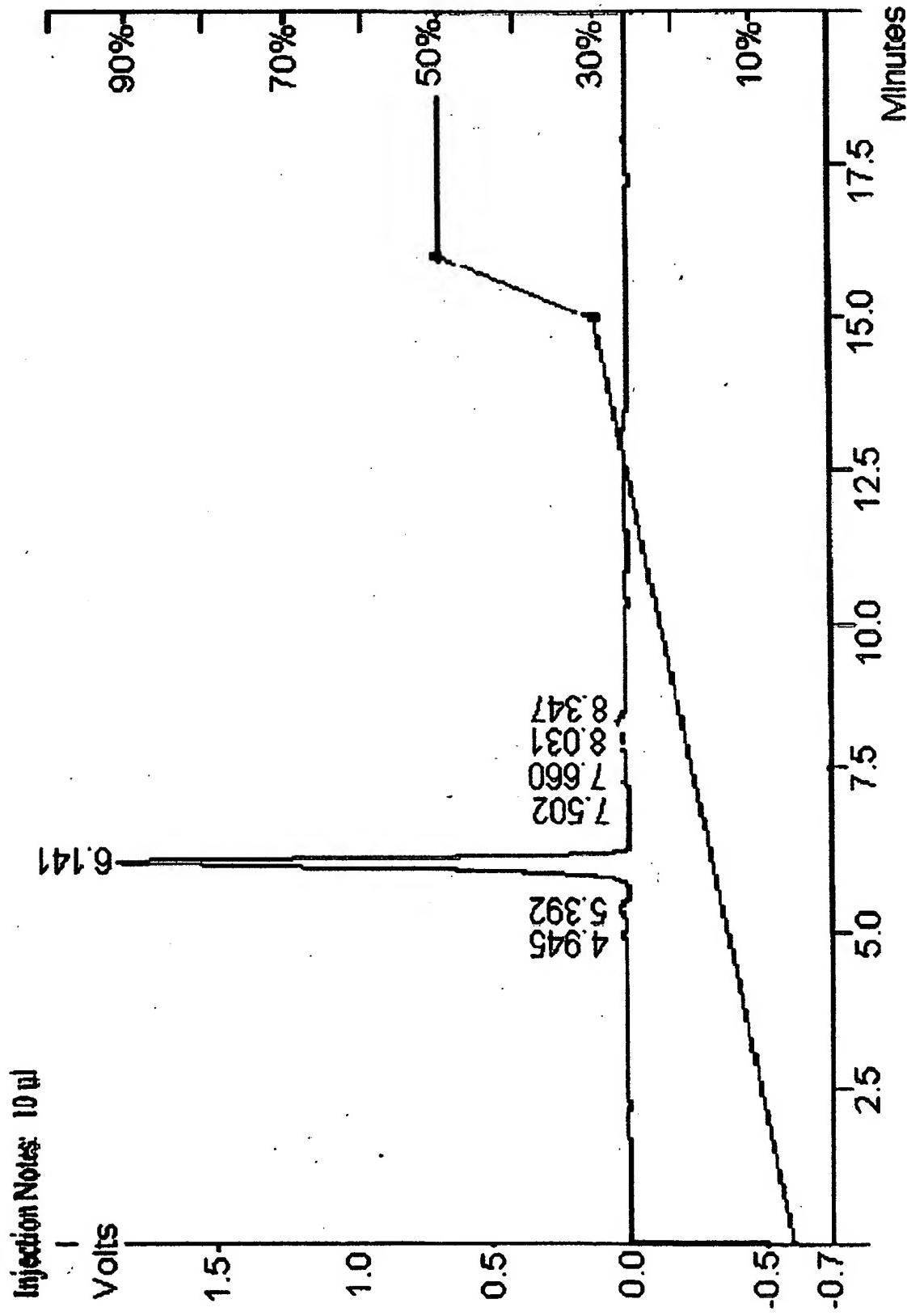


Figure 5A: HPLC analysis of the oligonucleotide sequence I.D. #7. dFC CG ACG

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120202sc111a: dFC GG ACG (SEQ ID NO: 7)

	Peak No	Ret Time(min)	Peak Name	Peak Area (counts)	Peak Height (counts)
			Result (%)		
1	4.945		0.58	139521	12576
2	5.392		2.02	486112	35915
3	6.141		90.60	21751388	1865545
4	7.502		0.85	204987	14410
5	7.660		0.68	162070	13251
6	8.031		1.64	394599	29908
7	8.347		3.62	869972	48542
			Totals	24008648	2020147
				99.99	

Figure 5B: HPLC analysis of the oligonucleotide sequence I.D. #7. dFC GG ACG

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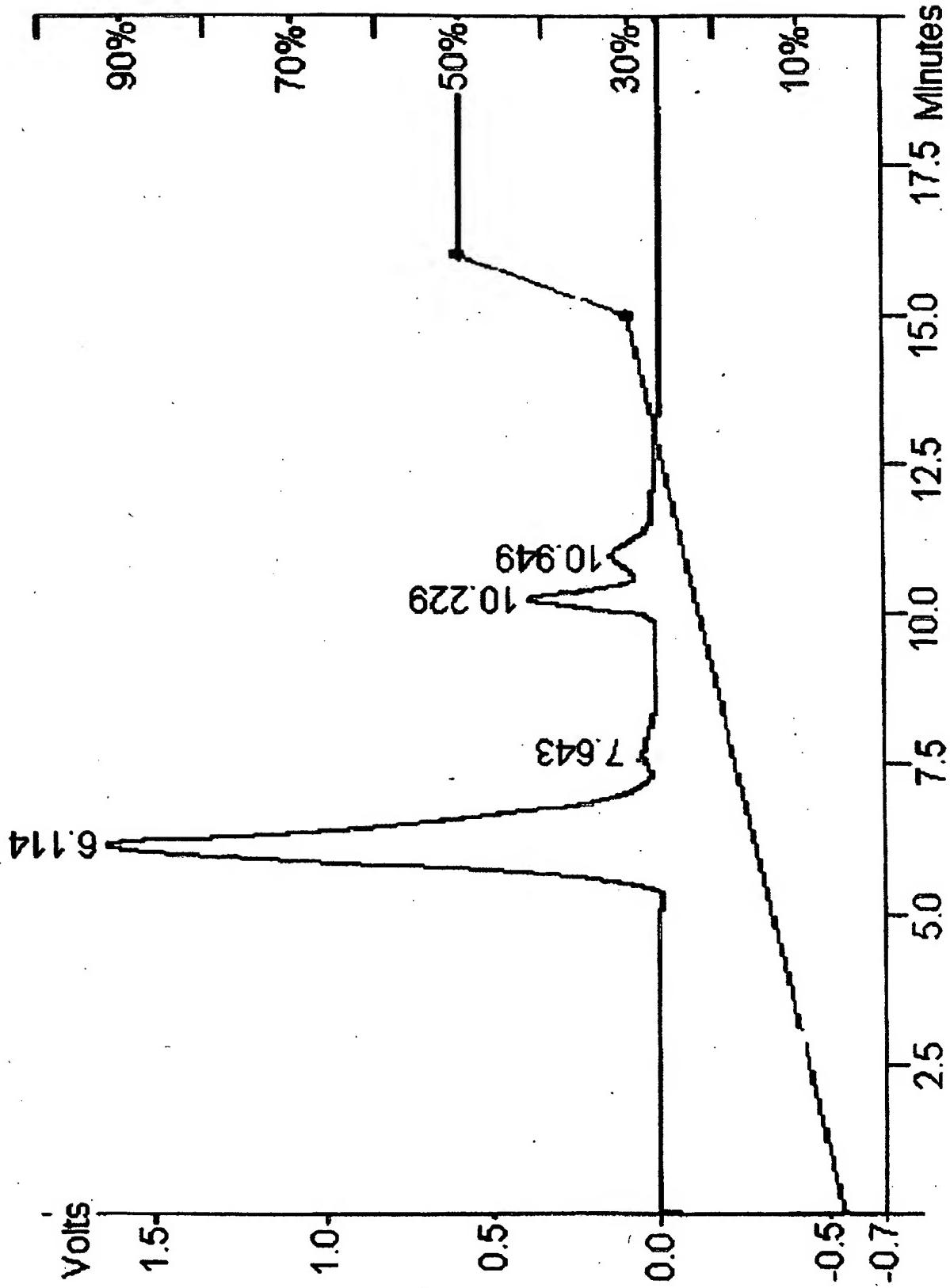


Figure 6A: HPLC analysis of the oligonucleotide sequence I.D. #8. dFC GT GGA ACG

Replacement Sheet

120202sc1113a: dFC GT GGA ACG (SEQ ID NO:8)

Peak No	Ret Time(min)	Peak Name Result (%)	Peak Area (counts)	Peak Height (counts)
1	6.114	85.19	72523816	1647089
2	7.643	1.09	924821	27270
3	10.229	8.69	7400725	377325
4	10.949	5.03	4278076	125992
		Totals	85127440	2177676

Figure 6B: HPLC analysis of the oligonucleotide sequence I.D. #8. dFC GT GGA ACG

Replacement Sheet

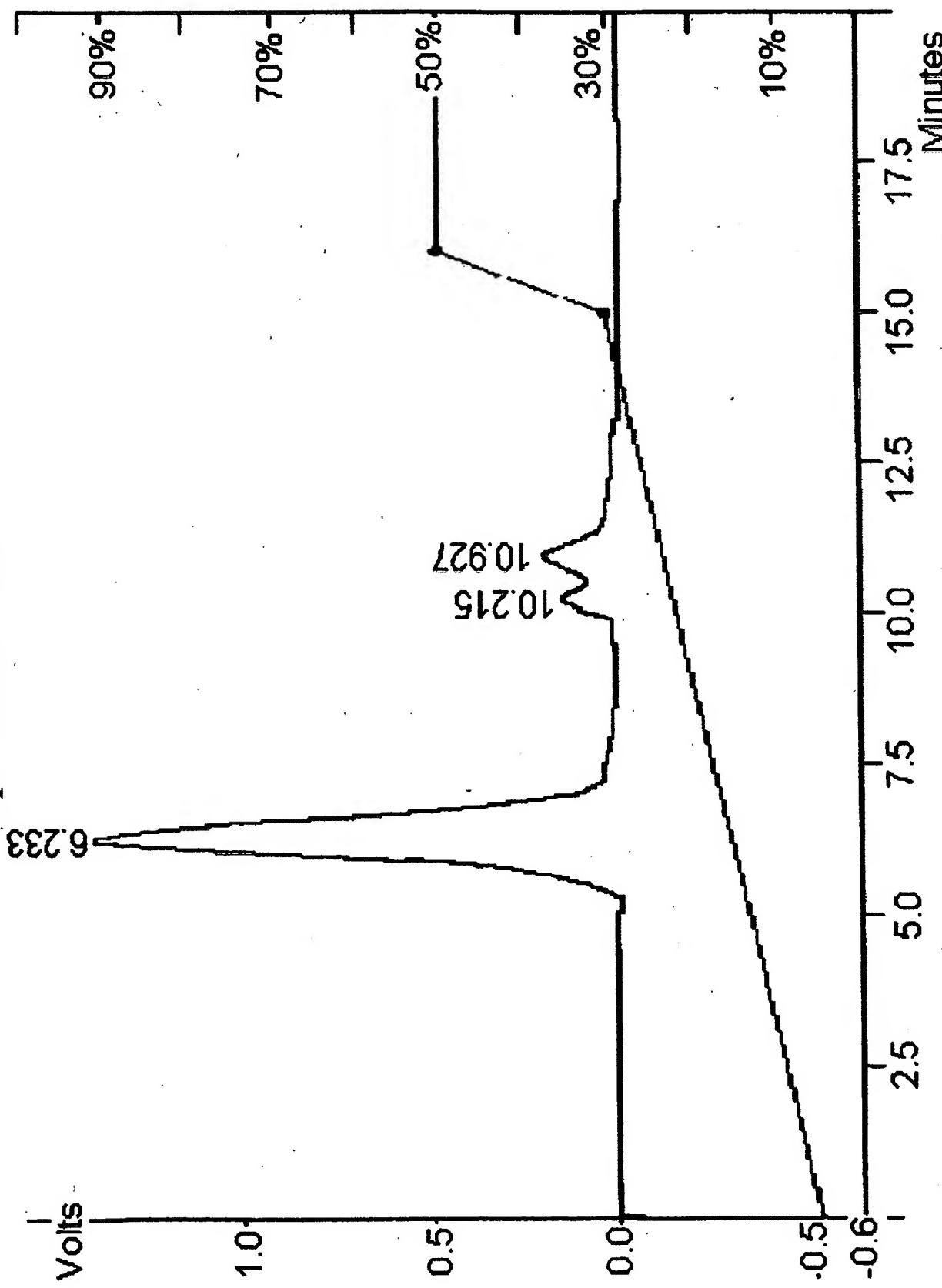


Figure7A: HPLC analysis of the oligonucleotide sequence I.D.#9. dFC GGA CGT GGA ACG

Replacement Sheet

120302sc1117a: dFC GGA CGT GGA ACCG (SEQ ID NO:9)

Peak No	Ret Time(min)	Peak Name Result (%)	Peak Area (counts)	Peak Height (counts)
1	6.233	85.34	62403828	1397338
2	10.215	4.82	3527638	139172
3	10.927	9.84	7193832	190294
		Totals	73125296	1726804

Figure7B: HPLC analysis of the oligonucleotide sequence I.D.#9. dFC GGA CGT GGA ACG

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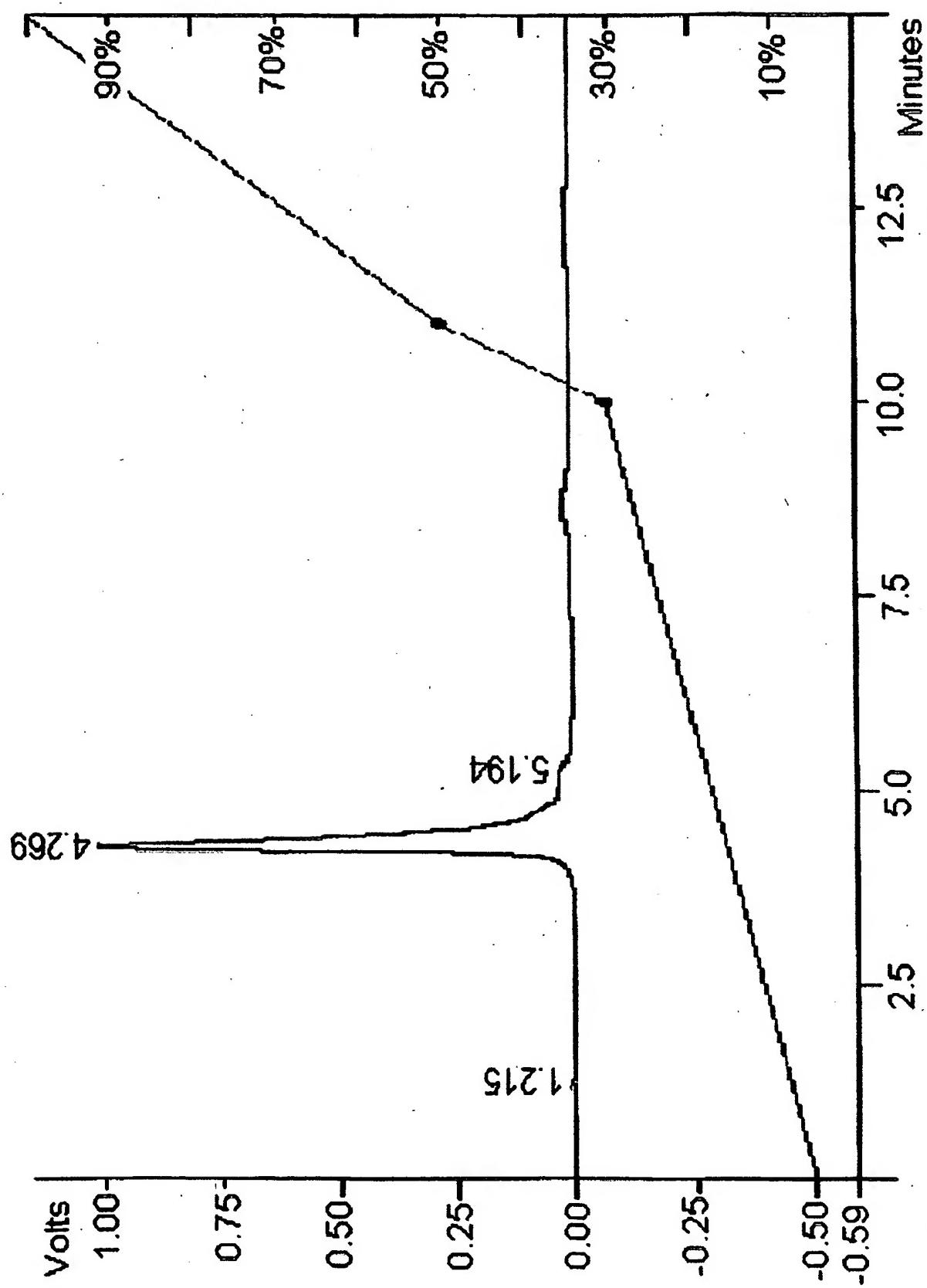


Figure 8A: HPLC analysis of the oligonucleotide sequence I.D. #10. dFC GGA GCT GGA ACG

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120402sc1119a: dFC GGA GCT GGA ACG (SEQ ID NO: 10)

Peak No	Ret Time(min)	Peak Name Result (%)	Peak Area (counts)	Peak Height (counts)
1	1.215	0.27	36939	5231
2	4.269	99.29	13551755	991073
3	5.194	0.44	59924	7225
Totals		100.00	13648618	1003529

Figure 8B: HPLC analysis of the oligonucleotide sequence I.D. #10. dFC GGA GCT GGA ACG

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Lot#120202sc111a

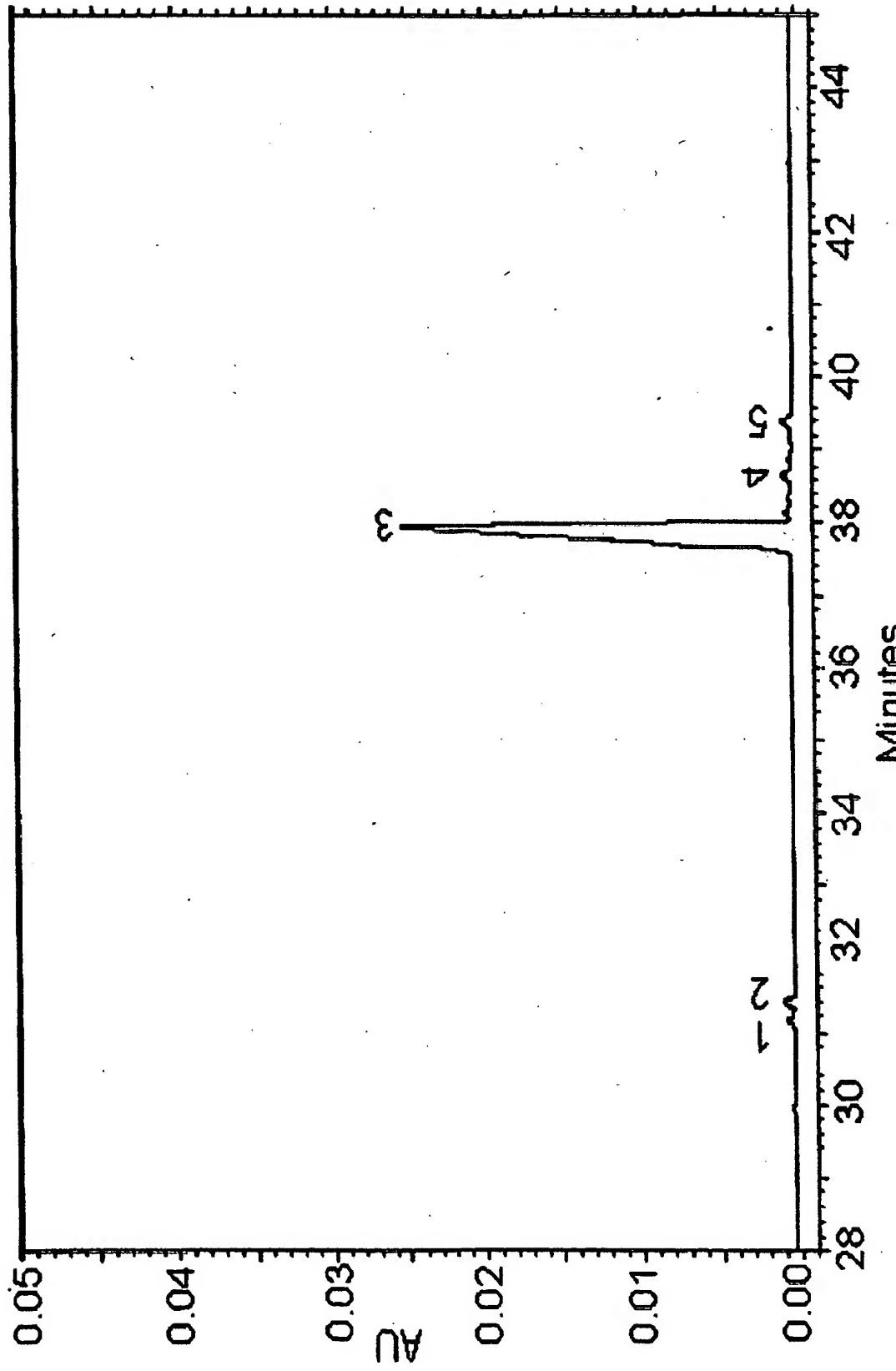


Figure 9A: Capillary Gel Electrophoresis of the oligonucleotide sequence I.D. #7. dFC GG ACG

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120202sc1111a: dFC GG ACG (SEQ ID NO:7)

UV - 254nm

Results

Pk #	Migration Time	Area Percent
1	31.133	0.699
2	31.408	0.964
3	37.904	96.167
4	38.646	0.826
5	39.392	1.343

Totals 100.000

Sample concentration = 5.0 OD/ml: Injection time = 4.0 sec: Injection voltage = 10 kV:

Separation voltage = 16 kV

Figure 9B: Capillary Gel Electrophoresis of the oligonucleotide sequence I.D. #7. dFC GG ACG

Replacement Sheet

Lot#120202sc1113a

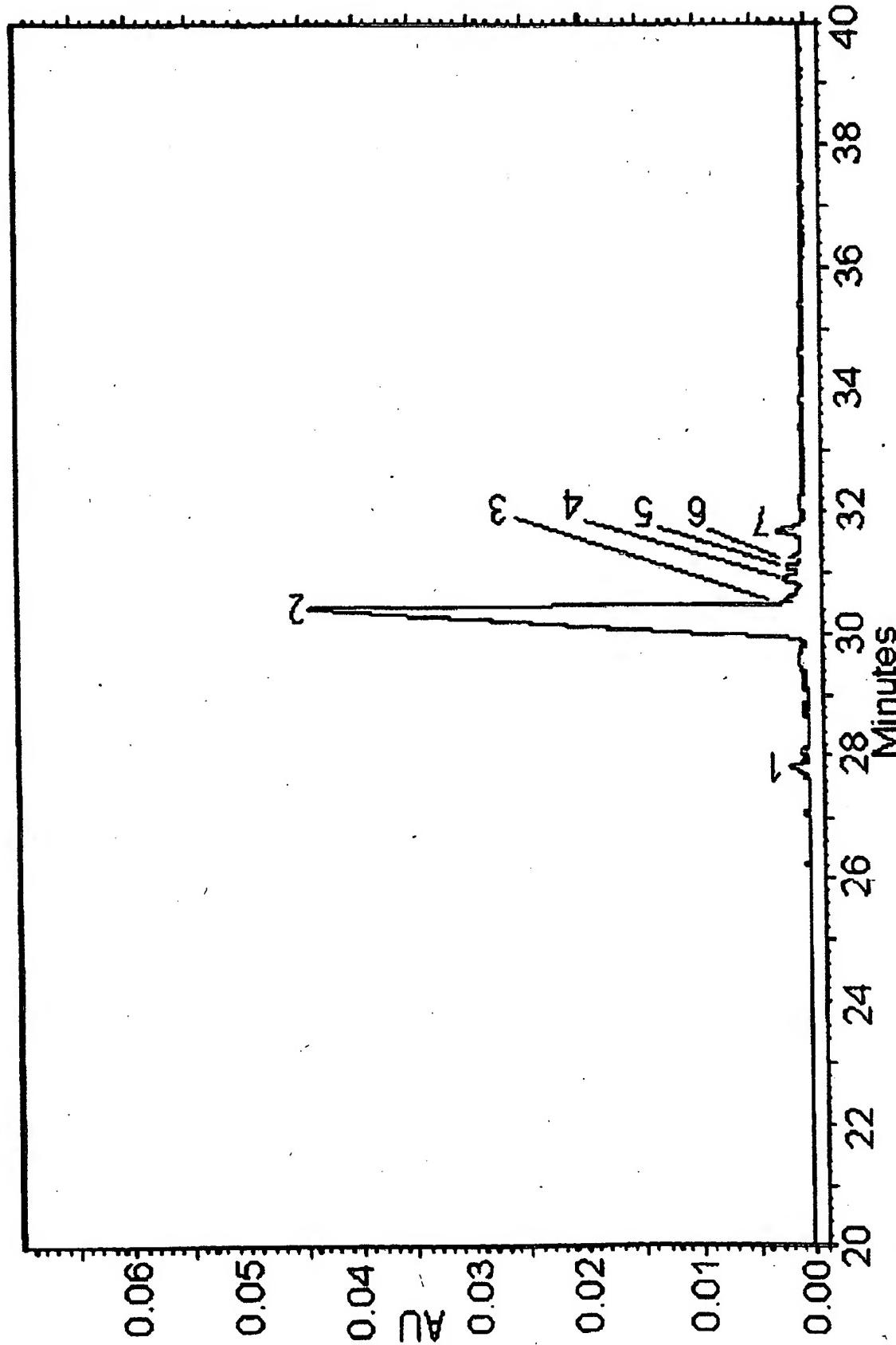


Figure 10A: Capillary Gel Electrophoresis of the oligonucleotide sequence I.D. #8, dFC GT GGA ACG

Replacement Sheet

120202sc1113a: dFC GT GGA ACG (SEQ ID NO:8)

UV - 254nm Results

<u>Pk #</u>	<u>Migration Time</u>	<u>Area Percent</u>
1	27.813	1.206
2	30.400	94.869
3	30.538	0.369
4	30.892	0.748
5	31.071	0.424
6	31.258	0.530
7	31.667	1.854
Totals		100.000

Sample concentration = 5.0 OD/ml: Injection time = 4.0 sec: Injection voltage = 10 kV:
Separation voltage = 16 Kv

Figure 10B: Capillary Gel Electrophoresis of the oligonucleotide sequence I.D. #8. dFC GT GGA ACG

Replacement Sheet

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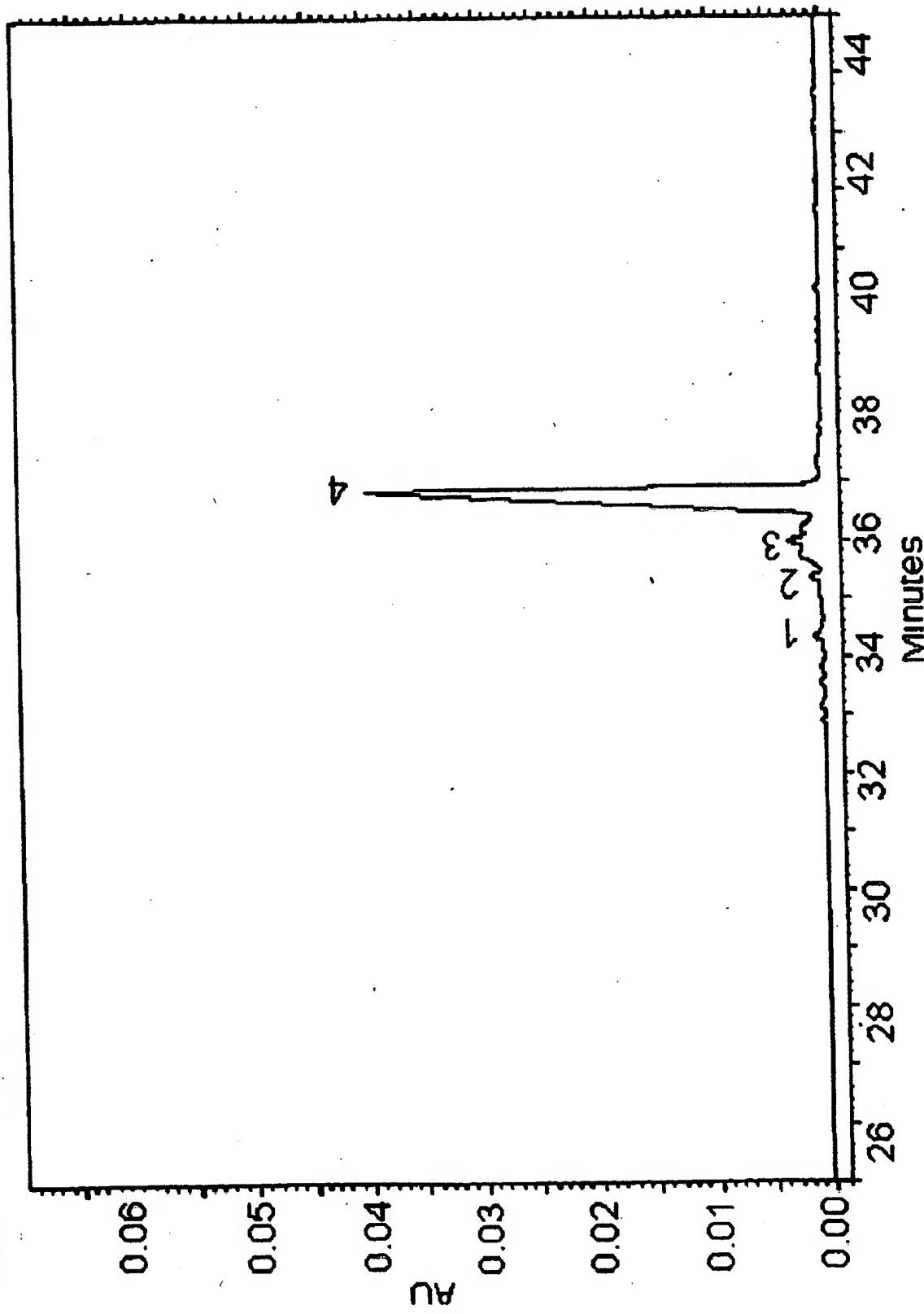


Figure 11A: Capillary Gel Electrophoresis of the oligonucleotide sequence I.D. #9. dFC GGA CGT GGA ACG

Replacement Sheet

120302sc1117a: dFC GGA CGT GGA ACC (SEQ ID NO:9)

UV - 254nm Results

<u>Pk #</u>	<u>Migration Time</u>	<u>Area Percent</u>
1	34.308	0.996
2	35.342	0.858
3	35.958	5.222
4	36.825	92.923
Totals		100.000

Sample concentration = 5.0 OD/ml : Injection time = 4.0 sec: Injection voltage = 10 kV:
Separation voltage = 16 kV

Figure 11B: Capillary Gel Electrophoresis of the oligonucleotide sequence I.D. #9. dFC GGA CGT GGA ACG

Replacement Sheet

Lot#120402sc1119a

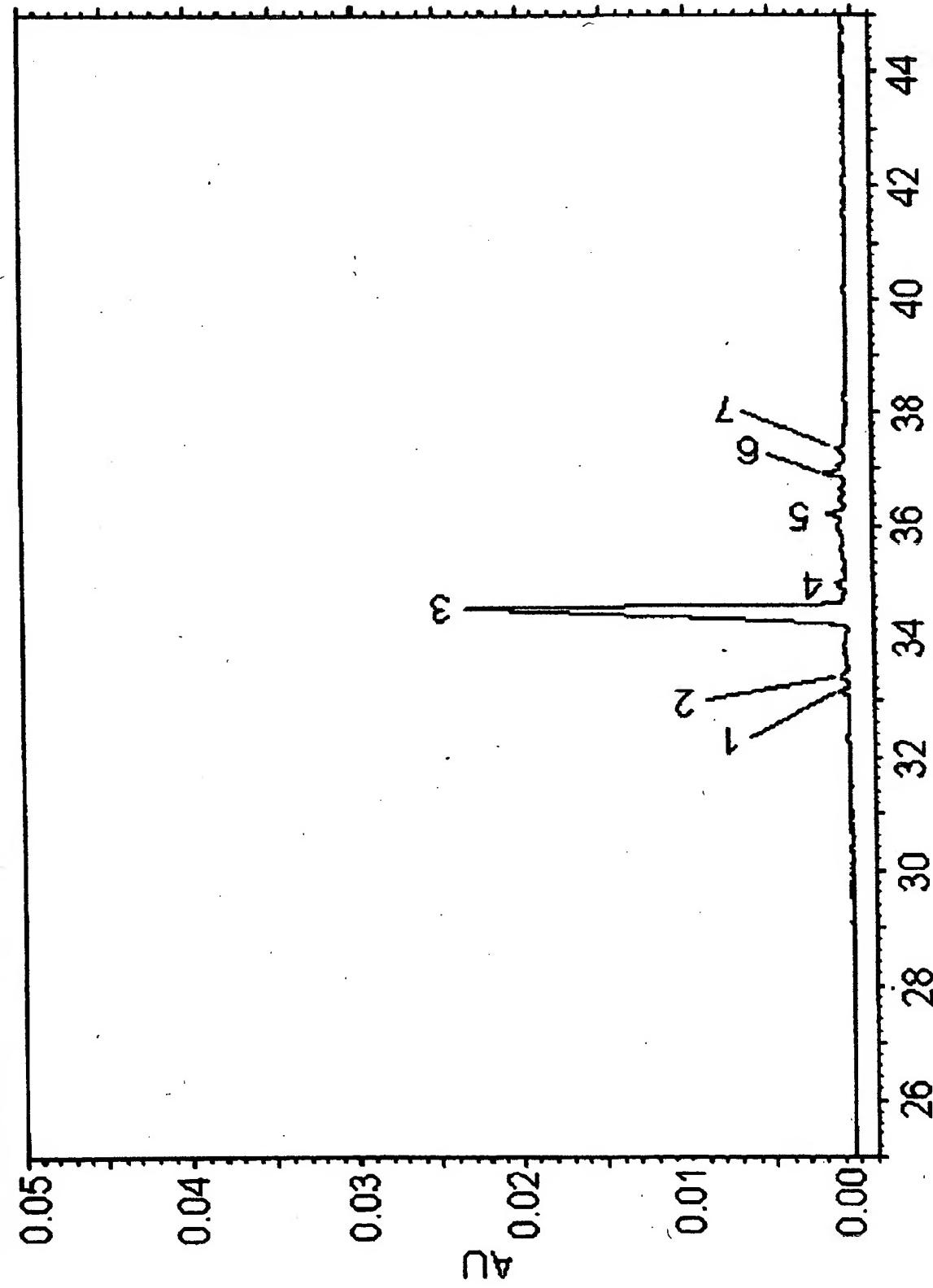


Figure 12A: Capillary Gel Electrophoresis of the oligonucleotide sequence I.D.#10. dFC GGA GCT GGA ACG

Replacement Sheet

120402sc1119a: dFC GGA GCT GGA ACG (SEQ ID NO: 10)

UV - 254nm
Results

Pk #	Migration Time	Area Percent
1	33.142	1.103
2	33.400	1.195
3	35.029	1.717
5	36.246	1.132
6	36.913	1.842
7	37.054	0.473
Totals		100.000

Sample concentration = 5.0 OD/ml: Injection time = 4.0 sec: : Separation voltage = 16 kV

Figure 12B: Capillary Gel Electrophoresis of the oligonucleotide sequence I.D.#10. dFC GGA GCT GGA ACG

Replacement Sheet

E

D

B

A

Colon Cancer Cells

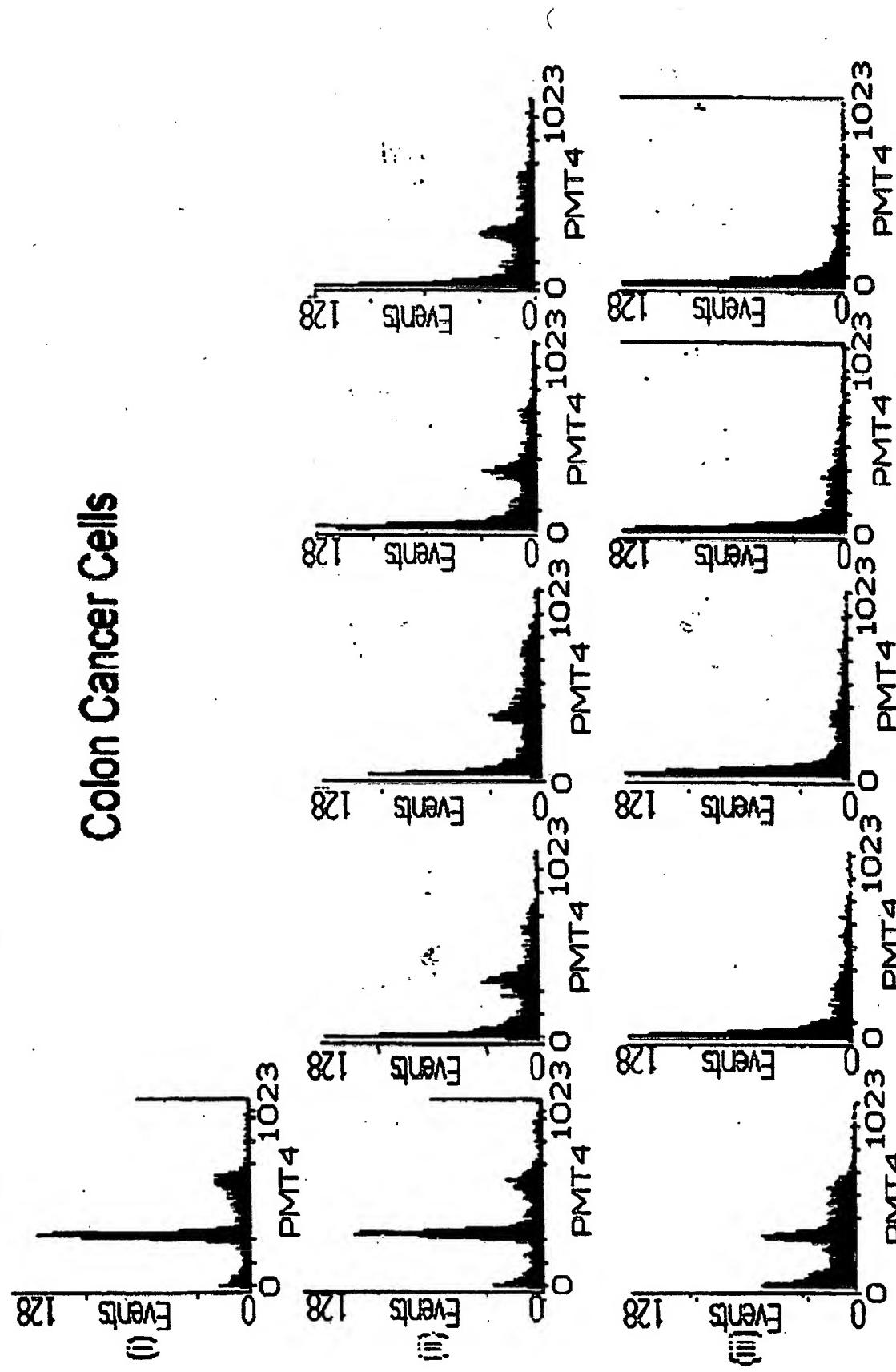


Figure 13: Flow Cytometric DNA cell cycle profiles: Effect of GEMCITABINE-ODN's on colon cancerous cells HT29

Replacement Sheet

E**D****C****B****A**

Colon Normal Cells

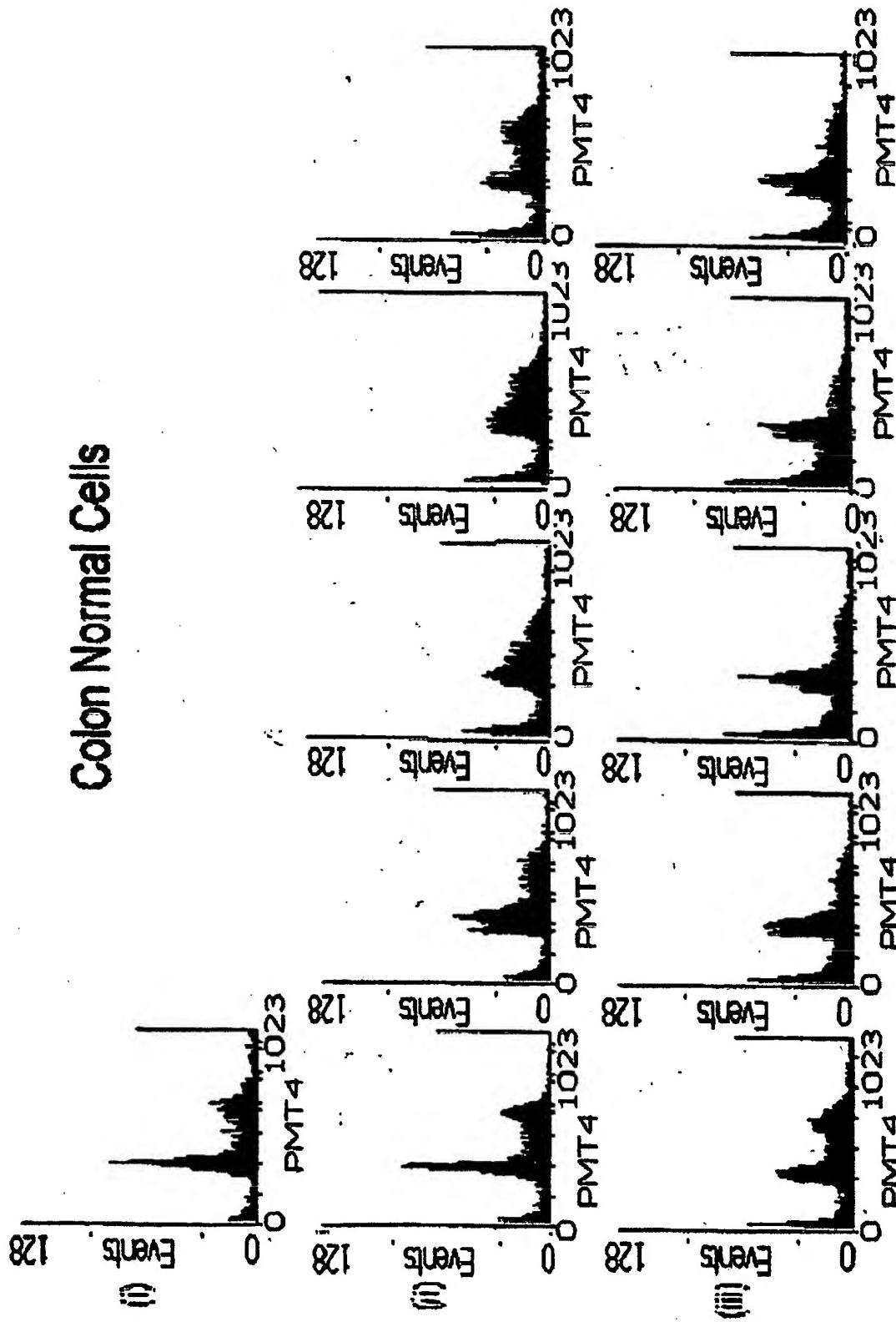


Figure 14: Flow Cytometric DNA cell cycle profiles: Effect of GEMCITABINE-ODN's on colon normal cells CCD-112CO